

WHAT IS CLAIMED IS:

1. An optical information recording medium comprising a ROM area in which pre-pits are arranged in a line in advance, wherein a groove having a depth smaller than a depth of the pre-pits is formed between the pre-pits, and wherein the groove has a width at junction parts of the groove and the pre-pits smaller than a width of a part of the groove other than the junction part.

2. The optical information recording medium according to Claim 1, wherein the following relationships are satisfied:

$$1/2 W_g \leq W_{pg} < W_g; \text{ and } W_{pg} < W_p$$

where W_p , W_{pg} and W_g represent a width of the pre-pit, the width of the groove at the junction parts, and the width of the other part of the groove other than the junction parts, respectively.

3. An optical information recording medium comprising a ROM area in which pre-pits are arranged in a line in advance, wherein a groove having a depth smaller than a depth of the pre-pits is formed between the pre-pits, and wherein the groove has a depth at junction parts of the groove and the pre-pits smaller than a depth of a part of

the groove other than the junction parts.

4. The optical information recording medium according to Claim 3, wherein the following relationship is satisfied:

$$1/2 Dg \leq Dpg < Dg$$

where Dpg represents the depth of the groove at the junction parts, and Dg represents the depth of the other part of the groove.

5. An optical information recording medium comprising a substrate, a ROM area which is formed on the substrate and in which pre-pits are arranged in a line in advance and a recordable area which is formed on the substrate and in which a guiding groove is arranged, the pre-pits and the guiding groove wobbling in a radius direction of a substrate, wherein a groove having a depth smaller than a depth of the pre-pits is formed between the pre-pits, and the groove between said pre-pits has a wobbling amount greater than a wobbling amount of the pre-pits.

6. An optical information recording medium comprising a ROM area in which pre-pits are arranged in a line in advance and a recordable area in which a guiding groove is arranged, wherein a pit having a depth not greater than a depth of the pre-pits is formed between the pre-pits.

7. The optical information recording medium according to Claim 6, wherein the pit is connected to two of the pre-pits.

8. The optical information recording medium according to Claim 6, wherein the depth of the pit is equal to the depth of the guiding groove.

9. The optical information recording medium according to Claim 6, wherein the pit has a width not greater than a width of the guiding groove.

10. An optical information recording medium comprising a substrate, a ROM area which is formed on the substrate and in which pre-pits are arranged in a line in advance and a recordable area which is formed on the substrate and in which a guiding groove is arranged, the pre-pits and the guiding groove wobbling in the radial direction of the substrate, wherein a pit having a depth smaller than a depth of the pre-pits is formed between the pre-pits, and the pit has a wobbling amount greater than a wobbling amount of the pre-pits.

11. An optical information recording medium comprising

a substrate, a ROM area which is formed on the substrate and in which pre-pits are arranged in a line in advance and a recordable RAM area which is formed on the substrate and in which a pre-groove is arranged, a recording layer located overlying the substrate, a reflection layer located overlying the recording layer, and a protection layer located overlying the reflection layer, wherein a groove is formed between the pre-pits along the line of the pre-pits, and a projection portion is formed in a height direction of the substrate at junction parts of the pre-pits and the groove.

12. The optical information recording medium according to Claim 11, wherein the recording layer is a dye layer.

13. The optical information recording medium according to Claim 11, wherein the following relationship is satisfied:

$$Hg/Hp > 0.08$$

wherein H_p represents a height from a bottom of the pre-pits to a top of the projection part, and H_g represents a height from a bottom of the groove to the top of the projection part.

14. The optical information recording medium according

to Claim 13, wherein the following relationship is satisfied:

$$Lbg/Lbp > 0.75$$

wherein Lbp represents a track-direction length of the bottom of the pre-pits of a 3T pit, and Lbg represents a track-direction length of the bottom of the groove between the pre-pits of a 3T land.

15. The optical information recording medium according to Claim 11, wherein said projection part has a steep-edged shape.